Recombinant human Meprin A subunit alpha/MEP1A protein

Catalog Number: ATGP3425

PRODUCT INFORMATION

Expression system
Baculovirus

Domain
22-601aa

UniProt No.
Q16819

NCBI Accession No.
NP_005579

Alternative Names
Meprin A subunit alpha, MEP1A, PPHA, Endopeptidase-2, N-benzoyl-L-tyrosyl-P-amino-benzoic acid hydrolase subunit alpha, PABA peptide hydrolase, PPH alpha

PRODUCT SPECIFICATION

Molecular Weight
67.4 kDa (589aa)

Concentration
0.25mg/ml (determined by absorbance at 280nm)

Formulation
Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

Purity
> 85% by SDS-PAGE

Endotoxin level
< 1 EU per 1ug of protein (determined by LAL method)

Tag
His-Tag

Application
SDS-PAGE

Storage Condition
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description
MEP1A, also known as meprin A subunit alpha, is a single-pass type I membrane protein which belongs to the peptidase M12A family. It abundantly expressed in kidney and intestinal epithelial cells, are secreted into the urinary tract and intestinal lumen, and are found in leukocytes and cancer cells under certain conditions. It is

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capable of proteolytically degrading extracellular matrix proteins, proteolytically processing bioactive proteins, and play a role in inflammatory processes. Recombinant human MEP1A, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

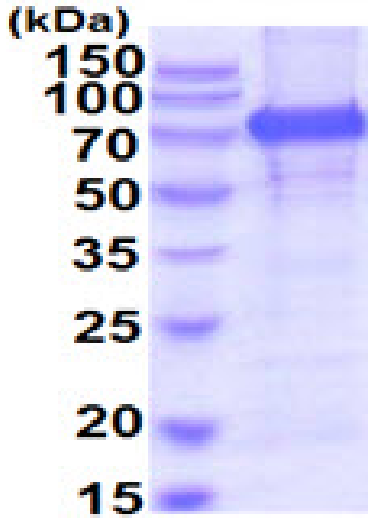
ADPVPIKYLP EENVHDADFG EQKDISEINL AAGLDLFQGD ILLQKSRNGL RDPNTRWTFP IPYILADNLG LNAKGAILYA FEMFRLKSCV DFKPYEGESS YIIFQQFDGC WSEVGDQHVG QNISIGQGCA YKAIIEHEIL HALGFYHEQS RTDRDDYVNI WWDQILSGYQ HNFDTYDDSL ITDLNTPYDY ESLMHYQPFS FNKNASVPTI TAKIPEFNSI IGQRLDFSAI DLERLNRMYN CTTTHTLLDH CTFEKANICG MIQGTRDDTD WAHQDSAQAG EVDHTLLGQC TGAGYFMQFS TSSGSAEEAA LLESRILYPK RKQQCLQFFY KMTGSPSDRL VVWVRRDDST GNVRKLVKVQ TFQGDDDHNW KIAHVVLKEE QKFRYLFQGT KGDPQNSTGG IYLDDITLTE TPCPTGVWTV RNFSQVLENT SKGDKLQSPR FYNSEGYGFG VTLYPNSRES SGYLRLAFHV CSGENDAILE WPVENRQVII TILDQEPDVR NRMSSSMVFT TSKSHTSPAI NDTVIWDRPS RVGTYHTDCN CFRSIDLGWS GFISHQMLKR RSFLKNDDLI IFVDFEDITH LSQHHHHHH

General References

Geurts N., et al. (2012) FEBS Lett. 586:4264-4269.
Minder P., et al. (2012) J Biol Chem. 287:35201-35211.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)